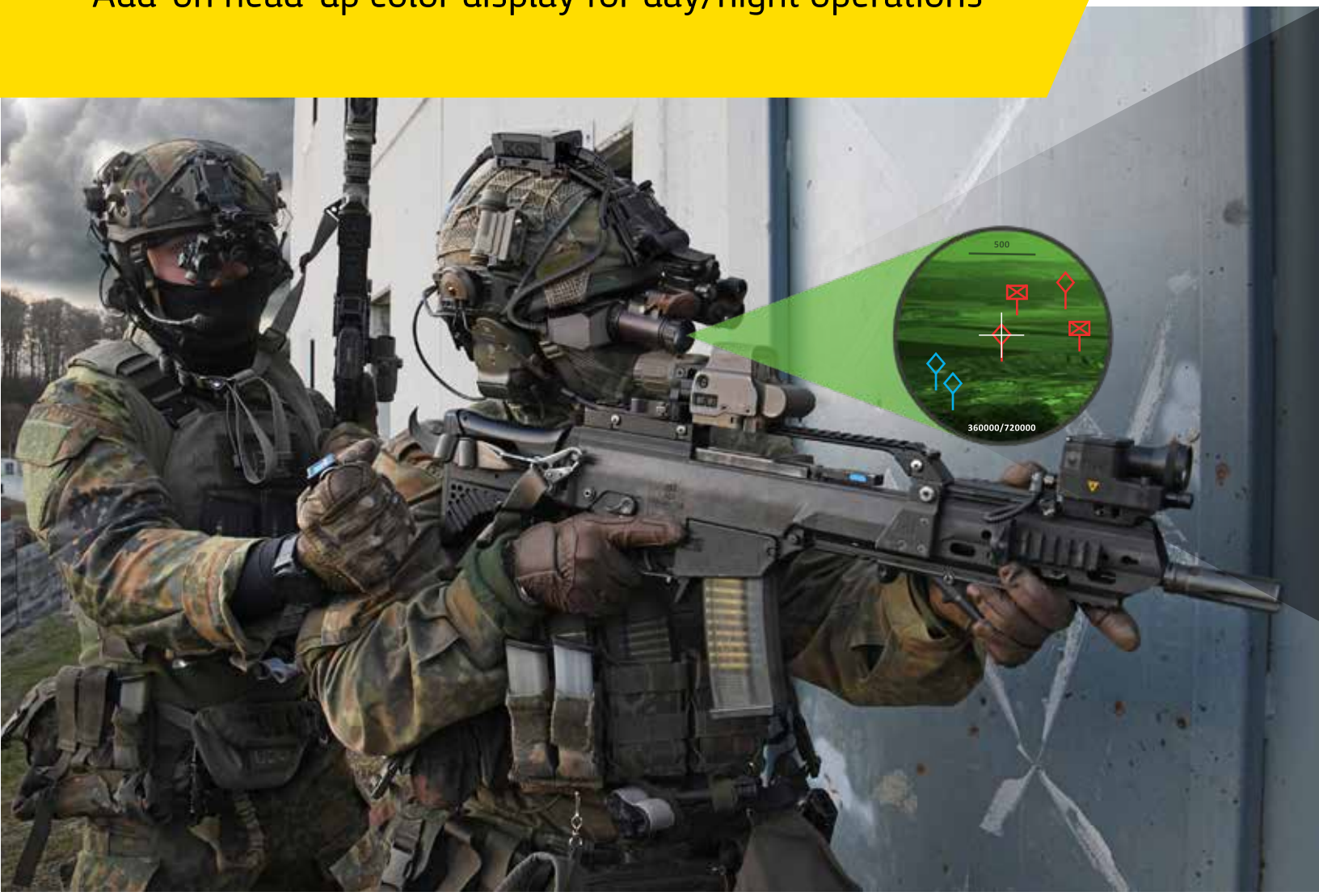
XACTse

Add-on head-up color display for day/night operations



Elbit Systems™

Security & Tactical EO Solutions – ELSEC

XACTse

Add-on head-up color display for day/night operations

Elbit Systems' unique XACTse head-up color display (HUD) enables effective day and night operations for enhanced mission effectiveness. The versatile add-on system fits any 16mm and 18mm night vision goggles system (NVG).

System overview

XACTse enables the user to view tactical data (including augmented reality) during day and night with superior image quality and full color display. Night operation is possible with any NVG and in daylight operation the system operates as a see-through device.

The system comprises an electronic unit (HU – Helmet Unit) and a tactical add-on optic unit (EU – Eyepiece Unit).

The add-on HUD easily attaches to any NVG, no tools required.

Operational capabilities

The XACTse provides self-orientation data and navigation capabilities, using the helmet unit's (HU) built-in sensors, in standalone mode. The versatile HUD easily integrates with C^2/C^4I systems and other external devices such as weapon sights, vehicle computers, thermal cameras (fusion capability) and more.

Key Features

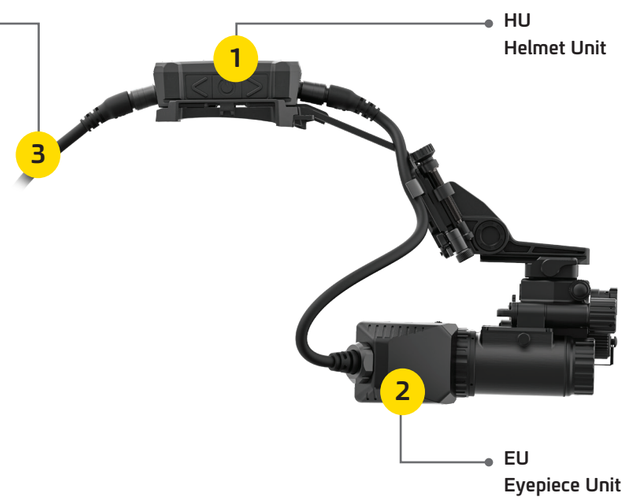
- Full color data display
- Day/night operation
- Net-centric device – connect and display data from any external source
- System power source or external power source
- Lightweight
- Automatic and manual display brightness control

Key Benefits

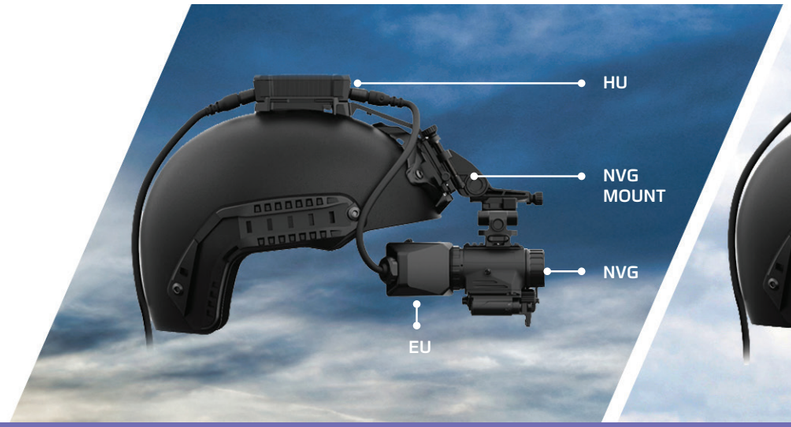
- Versatile and adaptable – fits any 16mm/18mm NVG System
- Easily attached add-on system
- Superior image quality
- Fully MIL-STD qualified

External Devices

- Day camera
- Thermal channel
- LWIR channel
- Remote control
- External battery pack
- BMS
- Vehicle computer
- Weapon sight
- And more



XACTse Night Operation



XACTse Day Operation

XACTse

Add-on head-up color display for day/night operations

Eyepiece Unit (EU)

Physical Characteristics	
Length	64mm
Width	92mm
Height	47mm
Weight	90g

Display Parameters	
Luminance at center	Gain adjustable from 0 FL to 1500 FL
Resolution	1280 x 720
Refresh rate	60 Hz
Image ratio	16:9
FOV diagonal	37.15° (32.5° x 18°)
Eye relief	≤18mm
EMB	10.5mm x 6mm
See through transmission	80%
Full color	yes
Diopter adjustment	-2 to +6

Sensors	
IMU	For automatic shutdown when flip away

Helmet Unit (HU)

Physical Characteristics	
Length	84mm
Width	51mm
Height	27mm
Weight	100g

Interfaces	
Communication	USB2.0/UART in RS422
Video	PAL/VGA/GMSL/USB
Power	9-16v
	5v USB
	Lithium ion battery 3.6v
Storage	Memory 16GB (optional up to 64GB)
	RAM 2GB, DDR

Wireless Link	
Wireless	WiFi 802.11
Bluetooth	BT 4.2 / BLE

Sensors	
GPS	Accuracy – 2.5m
Compass	Accuracy - ±1° (1 σ RMS)
Light sensor	For automatic data brightness display

System modular configurations

HU with power mount – front configuration

HU with power mount – back configuration

HU with external power source – front configuration

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